



01-17-06

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Docket No.: 64603(70904)
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Mitsuko Kosaka

Application No.: 10/559,784

Confirmation No.: N/A

Filed: December 8, 2005

Art Unit: N/A

For: METHOD FOR PRODUCING RETINAL
NERVE CELLS FROM NEURAL
STEM/PROGENITOR CELLS DERIVED
FROM IRIS TISSUE AND RETINAL
NERVE CELLS OBTAINED BY SAME
METHOD

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the date of entry of the national stage of an international application as set forth in 37 CFR 1.491 (37 CFR 1.97(b)(2)).

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent

applications. Applicant submits herewith copies of foreign patents and non-patent documents in accordance with 37 CFR 1.98(a)(2).

A concise explanation of relevance of the items listed on form PTO/SB/08 in accordance with 37 CFR 1.98(a)(3) is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1105, under Order No. 64603(70904). A duplicate copy of this paper is enclosed.

Dated: January 13, 2006

Respectfully submitted,

By M J McLaren
Margaret J. McLaren, Ph.D., Esq.

Registration No.: 53,303
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Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	10/559,784
				Filing Date	December 8, 2005
				First Named Inventor	Mitsuko Kosaka
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	64603(70904)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)	MM-DD-YYYY		

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
	B1	JP 2003-325167	11/18/03	Japan Science & Technology Corp.	
	B2	WO 01/58460	08/16/01	The Schepens Eye Research Institute, Inc.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	CA	TEMPLE, S., "The Development of Neural Stem Cells", Nature Vol. 414, November 1, 2001 pp. 112-117.			
	CB	AHMAD, I. et al., "Identification of Neural Progenitors in the Adult Mammalian Eye", Biochem. and Biophys. Res. Commun. Vol. 270 (2000), pp. 517-521.			
	CC	ZHAO, S. et al., "In Vitro Transdifferentiation of Embryonic Rat Retinal Pigment Epithelium to Neural Retina", Brain Research Vol. 677 (1995) pp. 300-130.			
	CD	DUTT, K. et al., "Transdifferentiation of Adult Human Pigment Epithelium into Retinal Cells by Transfection with an Activated H-ras Proto-Oncogene", DNA and Cell Biology Vol. 12, No. 8, (1993) pp. 667-673.			
	CE	ZHAO, X. et al., "Differentiation of Embryonic Stem Cells into Retinal Neurons", Biochem. And Biophys. Res. Commun. Vol. 297 (2002), pp. 177-184.			
	CF	TURNER, D.L. et al., "A Common Progenitor for Neurons and Glia Persists in Rat Retina Late in Development", Nature Vol. 328, July 9, 1987, pp. 131-136.			
	CG	AKAGI, T. et al., "Different Characteristics of Rat Retinal Progenitor Cells from Different Culture Periods", Neuroscience Letters 341 (2003) pp. 213-216			
	CH	REYNOLDS, B.A. and WEISS, S., "Generation of Neurons and Astrocytes from Isolated Cells of the Adult Mammalian Central Nervous System", SCIENCE, Vol. 255, 27 March 1992, pp. 1707-1710.			
	CI	LAYER, P.G. et al., "Inductive Effects of the Retinal Pigmented Epithelium (RPE) on Histogenesis of the Avian Retina as Revealed by Retinospheroid Technology", Seminars in CELL & DEVELOPMENTAL BIOLOGY, Vol. 9 (1998) pp. 257-262.			

Examiner Signature		Date Considered	
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Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known
Application Number		10/559,784		
Filing Date		December 8, 2005		
First Named Inventor		Mitsuko Kosaka		
Art Unit		N/A		
Examiner Name		Not Yet Assigned		
Sheet	2	of	2	Attorney Docket Number
				64603(70904)

NON PATENT LITERATURE DOCUMENTS (Cont.)

CJ	HOPERSKAYA, Olga A. et al., "Transdifferentiation of Adult Frog Iris in Retina or Lens by Exogeneous Influences", Develop. Growth and Differ., Vol. 23, No. 3 (1981) pp 201-213.	
CK	TROPEPE, Vincent et al., "Retinal Stem Cells in the Adult Mammalian Eye", SCIENCE, Vol. 287, March 17, 2000, pp. 2032-2036.	
CL	KOSAKA, Mitsuko et al., "In Vitro Culture System for Iris-Pigmented Epithelial Cells for Molecular Analysis of Transdifferentiation", Experimental Cell Research 245, Article No. EX984211 (1998) pp. 245-251.	
CM	HARUTA, Mastoshi et al., "Induction of Photoreceptor-Specific Phenotypes in Adult Mammalian Iris Tissue", Nature Neuroscience, Volume 4, No. 12, December 2001, pp. 1163-1164.	
CN	Copy of International Search Report dated 09-07-2004 for corresponding Application No. PCT/JP2004/008222 (English & Japanese Translations)	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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Application No. (if known): 10/559,784

Attorney Docket No.: 64603(70904)

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on January 13, 2006
Date

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Margaret J. McLaren, Ph.D., Esq.

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Telephone Number

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Information Disclosure Statement (2 pages)
PTO/SB/08 (1 page)
16 cited references
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